California Water Plan Update 2009

Overview of California Water Plan Activities

2008 Regional Workshops
Topics

- Recap Water Plan Regional Outreach
- Nexus of Water Plan – IRWM – FloodSafe
- 2007 Activities & Accomplishments
- Looking Ahead in 2008
California Water Plan Update 2009
Process Guide

Public

Advisory Committee
Communities of Interest
Statewide Organizations

Regional Forum & Workshops
Communities of Place
Local Agencies & Governments

Extended Review Forum
Interested Public

Govt-to-Govt Collaboration

Water Plan Steering Committee
State Agencies

Coordination
Federal Agencies

Consultation
Tribal Governments

< Plenary >
Everyone

DWR & Other State Agencies

Multi-Disciplinary Project Team

Work Teams
Analytical Tools & Data
Communications Planning
Environmental Water Facilitation
Integrated Flood Management
Land & Water Use
Resource Management Strategies
Water Supply & Balance
Water Quality

Regional Leads
State staff working with Regional Efforts
Regional Reports

Statewide Water Analysis Network (SWAN)
Scientists & Engineers

Information Exchange & Data Integration
Climate Change
Shared Analytical Tools & Methods

Plenary
Everyone
Regional Workshops & Forums
Local Agencies & Govts. – Communities of Place

The goal is to engage & involve:

- Regionally-based Water Collaboratives
- IRWM Planning Partnerships
- Local Governments, Agencies & Organizations
- Tribal Governments, Communities & Organizations
- State Commissions & Conservancies
- Regional Offices of State & Federal Agencies
2008 Regional Workshops - Round 2

- 11 interactive workshops
- Status of Water Plan Update 2009 activities
- Review Regional Report Outline & Schedule
- Recap what we heard during 2007 Workshops
- Discuss Initial Draft Regional Reports
- Preview Initial Draft Resource Mgmt Strategies
Nexus of Water Plan
IRWM & FloodSafe
Update 2005 Initiative 1
Implement Integrated Regional Water Management

- Foster regional partnerships
- Develop integrated regional water management plans
- Diversify regional water portfolios using mix of strategies
Linking the California Water Plan, IRWM Program & Regional Planning

IRWM Program

- Define IRWM guidelines & criteria
- Develop standards for IRWM plans
- Assist regions in plan development

IRWM Grants

- Evaluate grant proposals
- Award State funding
- Oversee implementation

California Water Plan Update

- Set State water policy and priorities
- Statewide & regional conditions
- Future Scenarios
- Data and tools for water community

Regional Planning Partnerships

- Set Regional objectives & solutions
- Inform Water Plan on regional status
- Participate in IRWM Program
- Apply for State funding
Update 2005 Initiative 2
Improve Statewide Water Management Systems

- Improve aging facilities
- Improve & integrate flood management
- Sustain the Sacramento-San Joaquin Delta
- Adapt for climate change
Linking Water Plan & FloodSAFE Planning

What to accomplish…
- Statewide strategic policy document…
- Regional flood plans with State assistance…
- Conduct specific feasibility studies …

How to accomplish…
- Operations, maintenance, and improvement plan for Central Valley …

Plan Improvements

- FloodSAFE Strategic Plan
- FloodSAFE Implementation Plan
- California Water Plan
- Add Statewide Flood Management Planning
- Central Valley Flood Management Plan
- Integrated Regional Water Management Plans
- Project Feasibility Studies
Integrate flood management in CA Water Plan
- Statewide goals and guiding principles
- Integrated flood management approach and methods used
- Inventory of expected costs of feasibility flood management investments and statewide risk assessment
- Current and expected near-term activities by region
- Key opportunities for real “on the ground” integration and make recommendations for preferred methods by region

Add resource management strategies for improving flood management
2007 Activities & Accomplishments
12-Month Collaboration Statistics
Mar 2007 – February 2008

**Comparison**

Update 2005

**23,300** person-hours
in **60** months

Update 2009

**9558** person-hours
in **12** months

**Statistic**

40% of collaboration in
20% of the time

<table>
<thead>
<tr>
<th>Meeting</th>
<th>Number</th>
<th>Person Hours</th>
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<td><strong>Totals</strong></td>
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<td><strong>9558</strong></td>
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</table>
Expanding Tribal Outreach & Consultation

- Informed California tribes of Update 2009 launch & Invited tribes to participate
- Convened a *Tribal Communications Committee* to design tribal outreach & Communication Plan
  - Met 5 times >> October - February
- Training session for Steering Committee members
- Held *California Tribal Water Plenary* - January 2008
- Planning for a *California Tribal Water Summit* in 2009 – Summit Proceedings in Update 2009
1. Evaluate Progress on Update 2005 & Revise the Strategic Plan

- **April ’07** – Advisory Committee reviewed Update 2005 Strategic Plan Elements and commented on status of their implementation
- **Dec ’07** – Advisory Committee offered changes to Strategic Plan Elements (not recommendations)
- **July ’08** – Advisory Committee will begin work on Update 2009 policy objectives & recommendations
2. Update the Future Scenarios & Develop Response Packages

- Update 2009 Future Scenarios
  - Current Trends
  - Optimistic Outlook
  - Challenging Conditions

- Response Packages
  - Combinations of 29 resource management strategies
  - Initial Drafts of RMS for review

- ✓ Reduce Water Demand
- ✓ Improve Operational Efficiency & Transfers
- ✓ Increase Water Supply
- ✓ Improve Water Quality
- ✓ Resource Stewardship
- ✓ Improve Flood Management

Graph showing trends from 1960 to 2040 with historical trends, optimistic outlook, and challenging conditions.
3. Quantify Climate Change Impacts & Recommend Adaptation Actions

- Established Climate Change Technical Advisory Group
- Collaborating with Governor’s Water-Energy Climate Action Team (WET CAT)
- Incorporated climate factors in Update 2009 Scenarios
- Developing climate change mitigation & adaptation strategies
4. **Update & Expand**

**12 Regional Reports**

- Building on Update 2005 reports
- Engaging regional water planning efforts & California Tribes
- Utilizing integrated regional water management plans
- Considering regional scenarios & response strategies
- Added 1999 to Water Portfolios – working on 2002 & 2003
- Recognizing regional issues having Statewide Implications
2007 Regional Workshops

- Completed 1st of 3 cycles – 10 interactive workshops
- Consolidated input posted on Regional Outreach Webpage
  www.waterplan.water.ca.gov/regional/
- Designated 4 DWR Regional Leads
  + Regional staffs from State Agencies are attending
- Work Topics:
  - Regional Outreach approach & participants
  - Content & Draft Outline for Regional Reports
  - Related Statewide Initiatives (IRWM, FloodSAFE, SWAN)
  - Roll up regional issues that have Statewide Considerations
2007 Regional Workshops
Statewide Considerations for Regional Reports

- Map out locations/condition of existing infrastructure and see what is missing for:
  - drinking water distribution
  - wastewater treatment
  - recycling (purple pipes)
  - stormwater reuse

- Consider water quality of imports, exchanges, and recharge of water

- Include information on impervious surface data and associated land use

- Describe emergency response planning and emergency water supplies
5. Update Resource Management Strategies

Reduce Water Demand
- Agricultural Water Use Efficiency
- Urban Water Use Efficiency

Improve Operational Efficiency & Transfers
- Conveyance
- System Reoperation
- Water Transfers

Increase Water Supply
- Conjunctive Management & Groundwater Storage
- Desalination – Brackish & Seawater
- Precipitation Enhancement
- Recycled Municipal Water
- Surface Storage – CALFED
- Surface Storage - Regional/Local

Improve Water Quality
- Drinking Water Treatment and Distribution
- Groundwater/Aquifer Remediation
- Matching Quality to Use
- Pollution Prevention
- Recharge Areas Protection
- Urban Runoff Management

Practice Resource Stewardship
- Agricultural Lands Stewardship
- Economic Incentives (Loans, Grants, and Water Pricing)
- Ecosystem Restoration
- Urban Land Use Management
- Water-Dependent Recreation
- Watershed Management
- Forest Management (new stewardship strategy including meadow restoration)
Added a New Strategy Category
“Improve Flood Management”

New Resource Management Strategies

- Modify Flooding
- Modify Susceptibility to Damage
- Modify Impacts of Flooding
- Preserve Natural Floodplain Resources

** Floodplain Management is merged into these strategies**
6. Add 5 Years to Water Portfolios
Outcome: 1998 – 2005 Data Set

- Completed WY 1999
- By mid-2008, complete WY 2002 & 2003
- By end-2008, complete WY 2004 & 2005
7. Improve Analytical Tools, Data & Data Exchange

Goals

Promote Collaboration
Facilitate Information Exchange
Improve Numbers

SWAN Workshops
Water PIE Plan
SWAN & Related Studies
Statewide Water Analysis Network (SWAN)

- Held 5 Workshops since December 2006
- Held Water Plan Session at CWEMF Annual Conf.

- Work Topics:
  - Shared Vision Planning approach
  - Conceptual Analytical Framework
  - SWAN Pilot Studies
  - Case Studies for implementing Future Scenarios
  - Water Portfolios & new Inflow-Outflow method
    - How to describe current water conditions
  - Quantification of Future Scenarios & Response Strategies
8. **Incorporate State Companion Plans**

- Water Boards Basin Plans
- FloodSafe Strategic Plan
- Delta Vision & Strategic Plan
- CALTRANS CA Transportation Plan & Regional Blueprint Plans
- CPUC Water Action Plan
- DFG Ecosystem Restoration Plan
- OES Emergency Response Plan
- OPR General Plan Guidelines
- And Others
Looking Ahead in 2008
Mandated Documents & Due Dates

- **Dec. 2007** – Just Released Draft Assumptions & Estimates Report
- **Dec. 2009** – Final Water Plan
Draft Assumptions & Estimates Report

- Released in January 2008
- Seeking comments by June 30, 2008 on
  - Additional information sources
  - How to improve utility of the A&E Report
  - How to improve data and information for Update 2009
- Release Final A&E Report in December 2008 along with Public Review Draft of Water Plan Update
2008 Public Meetings

- **March - April**: 11 Regional Workshops
- **March 20-21**: AC Meeting
- **Late May**: All Regions Forum
- **May – June**: Res. Man. Strategies Workshop Series
- **July**: AC Meeting
- **Sept. 18-19**: Plenary Meeting
- **Dec. 18-19**: AC Meeting
### Five Bites at the Water Plan Apple

#### Schedule of Draft Regional Reports & Resource Management Strategies

<table>
<thead>
<tr>
<th>Draft Document</th>
<th>Public Distribution (Post Online)</th>
<th>Public Venues for Discussion of Drafts</th>
<th>Final Date for Public Comments</th>
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<td><strong>Final Update 2009</strong></td>
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2 Ways to Access Water Plan Information

- Visit the Water Plan Web Portal
  www.waterplan.water.ca.gov

- Subscribe to Water Plan eNews
  a weekly electronic newsletter
  www.waterplan.water.ca.gov/enews